

## SEQUENCE LISTING

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PATENT & TRADEMARK OFFICE

<110> Milbrandt, Jeffrey D.  
Baloh, Robert H.

<120> Artemin, A Novel Neurotrophic Factor

<130> 6029-7996

<140> 09/220,920  
<141> 1998-12-24

<150> 09/163,283  
<151> 1998-09-29

<150> 60/108,148  
<151> 1998-11-12

<150> 09/218,698  
<151> 1998-12-22

<160> 120

<170> PatentIn Ver. 2.0

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<212> DNA

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<213> Homo sapiens

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 20 25 30  
 Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg  
 35 40 45  
 Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala  
 50 55 60  
 Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys  
 65 70 75 80  
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 Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu  
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 20 25 30  
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 35 40 45  
 Ser Cys Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu  
 50 55 60  
 Leu Gly Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser  
 65 70 75 80  
 Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp  
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 50 55 60  
 Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Pro  
 65 70 75 80  
 His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Pro  
 85 90 95  
 Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg Pro Thr Arg  
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 Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val  
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 gtgcgtttcc gcttctgcag cggctcctgc cgcgcgcgcgc gctctccaca cgcacccatc 180  
 ctggccagcc tactggcgcc cggggccctg cgcaccgcgc cggctccc gcccgtcagc 240  
 cagccctgtgc gcccaccac cgcgctacgaa gcggtctcc tcatggacgt caacagcac 300  
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 <212> DNA  
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 cggggctgcgc gcctgcgc cgcagctggc cccggcgcgc cgcgcgcct gggccaccgc 180  
 tccgacgacgac tggtgcgtt ccgcctctgc agcggctcc tccgcgcgc ggcgcctcca 240  
 cacgacccatca gcctggccag cctactggcc gccggggccccc tgcgaccgc cccgggcctcc 300

cgccccgtca gccagccctg ctgccgaccc acgcgtacg aagcggtctc cttcatggac 360  
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 ccgggagccc gggggcggtc gcaggggcccc ggcgcggcact ggctggccaa ggctgagggtc 180  
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 ccgggagccc gggggcggtc gcaggggcccc ggcgcggcact ggctggccaa ggctgagggtc 180  
 gtgtggagag cgcgcgcggc ggcaggagcc gctgcagaag cggaaacgcac ccagctcggtc 240  
 ggagcggtgg cccaggccga ggcgcgcac cggcaccagc tgcgagcgca ggcggcagcc 300  
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 35 40 45

Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu  
 50 55 60

Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser  
 65 70 75 80

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Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala  
 85 90 95

Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala  
 100 105 110

Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg  
 115 120 125

Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp  
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<210> 13

<211> 134

<212> PRT

<213> Homo sapiens

<400> 13

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Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu  
 35 40 45

Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile  
 50 55 60

Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp  
 65 70 75 80

Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys  
 85 90 95

Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser  
 100 105 110

Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala  
 115 120 125

Lys Arg Cys Gly Cys Ile  
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<210> 14

<211> 102

<212> PRT

<213> Homo sapiens

<400> 14

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 20 25 30

Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu  
 35 40 45

Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val.  
 50 55 60

Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser  
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Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala  
 85 90 95

Arg Glu Cys Ala Cys Val  
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<210> 15  
 <211> 96  
 <212> PRT  
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<400> 15  
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Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr  
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Cys Ala Gly Ser Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala  
 35 40 45

Leu Ala Arg Leu Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys  
 50 55 60

Arg Pro Thr Arg Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg  
 65 70 75 80

Trp Gln Arg Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly  
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<210> 16  
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Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys  
 20 25 30

Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg  
 35 40 45

Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro  
 50 55 60

Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr  
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His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys  
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<210> 17  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

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 35 40 45  
 Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg  
 50 55 60  
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg  
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<210> 18  
 <211> 89  
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 35 40 45  
 Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr  
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<210> 19  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

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 20 25 30  
 Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly  
 35 40 45

Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro  
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<211> 24

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<213> Homo sapiens

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<211> 37

<212> DNA

<213> Homo sapiens

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<210> 22

<211> 54

<212> DNA

<213> Homo sapiens

<400> 22

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54

<210> 23

<211> 37

<212> DNA

<213> Homo sapiens

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37

<210> 24

<211> 663

<212> DNA

<213> Homo sapiens

<400> 24

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<210> 25

<211> 663

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 25

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&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

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20															

Leu	Ser	Ser	Val	Ala	Glu	Ala	Ser	Leu	Gly	Ser	Ala	Pro	Arg	Ser	Pro
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35															

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Ser	Ala	Leu	Pro	Arg	Gly	Gly	Arg	Ala	Ala	Arg	Ala	Gly	Gly	Pro	Gly
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100															

Ser	Arg	Ala	Arg	Ala	Ala	Gly	Ala	Arg	Gly	Cys	Arg	Leu	Arg	Ser	Gln
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115															

Leu	Val	Pro	Val	Arg	Ala	Leu	Gly	Leu	Gly	His	Arg	Ser	Asp	Glu	Leu
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Val	Arg	Phe	Arg	Phe	Cys	Ser	Gly	Ser	Cys	Arg	Arg	Ala	Arg	Ser	Pro
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His	Asp	Leu	Ser	Leu	Ala	Ser	Leu	Leu	Gly	Ala	Gly	Ala	Leu	Arg	Pro
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Pro	Pro	Gly	Ser	Arg	Pro	Val	Ser	Gln	Pro	Cys	Cys	Arg	Pro	Thr	Arg
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Tyr	Glu	Ala	Val	Ser	Phe	Met	Asp	Val	Asn	Ser	Thr	Trp	Arg	Thr	Val
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Asp	Arg	Leu	Ser	Ala	Thr	Ala	Cys	Gly	Cys	Leu	Gly
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<210> 27  
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 <212> DNA  
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 ggctgtctgg gctga 675

<210> 28  
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 <212> DNA  
 <213> MURINE

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 gtgctggag cgtgctcggc ggacacgagcc gctgcagaag cggaaacgta tcagctcg 240  
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 ggcgcacatct gtggtcgtc cggcgtcgtc ccgggttccct gcacgcgcgg cgcgtgccc 360  
 gccggagcga gccggaggag actggagcgc gggaccaggc ggcgggggtg cgggctgagg 420  
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 gacattggg tccagggaaag cttctgtac gcagctcagc aggctagaa cagctaggt 600  
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<210> 29  
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 Met Glu Leu Gly Leu Ala Glu Pro Thr Ala Leu Ser His Cys Leu Arg  
 1 5 10 15  
 Pro Arg Trp Gln Ser Ala Trp Trp Pro Thr Leu Ala Val Leu Ala Leu  
 20 25 30  
 Leu Ser Cys Val Thr Glu Ala Ser Leu Asp Pro Met Ser Arg Ser Pro  
 35 40 45  
 Ala Ala Arg Asp Gly Pro Ser Pro Val Leu Ala Pro Pro Thr Asp His  
 50 55 60  
 Leu Pro Gly Gly His Thr Ala His Leu Cys Ser Glu Arg Thr Leu Arg  
 65 70 75 80  
 Pro Pro Pro Gln Ser Pro Gln Pro Ala Pro Pro Pro Pro Gly Pro Ala  
 85 90 95  
 Leu Gln Ser Pro Pro Ala Ala Leu Arg Gly Ala Arg Ala Ala Arg Ala  
 100 105 110

Gly Thr Arg Ser Ser Arg Ala Arg Thr Thr Asp Ala Arg Gly Cys Arg  
 115 120 125  
 Leu Arg Ser Gln Leu Val Pro Val Ser Ala Leu Gly Leu Gly His Ser  
 130 135 140  
 Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg  
 145 150 155 160  
 Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly  
 165 170 175  
 Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser Gln Pro Cys Cys  
 180 185 190  
 Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr  
 195 200 205  
 Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
 210 215 220

<210> 30  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
 atgcccggcc tgatctcagc ccgaggacag cccctccttg aggtccttcc tccccaaagcc 60  
 cacctgggtg ccctctttct ccctgaggct ccacttgc tctccgcga gcctgcctg 120  
 tggcccaccc tggccgctct ggctctgctg agcagcgtcg cagaggcctc cctgggctcc 180  
 gcgcggccgca gcccgtcccc ccgcgaaggc ccccccgc tccctggcgtc cccgcggc 240  
 cacctgggg ggggacgcac gggccgctgg tgcagtggaa gagccggcgg gccgcggc 300  
 cagccttetc gggccgcgc cccggccct gcacccccc ctgcctttcc cgcggggggc 360  
 cgcgcggcgc gggctgggg cccgggcagc cgcgcgtgg cagcgggggc gcggggctgc 420  
 cgcctgcgct cgcagctgg tccgggtgcgc ggcgcgtggcc tggggccaccg ctccgacgag 480  
 ctgggtgcgtt tccgttctg cagcggctcc tgccggccgc cgcgcgttcc acacgaccc 540  
 agcctggcca gcctactggg cgcggggcc ctgcgaccgc cccggggctc cggggccgtc 600  
 agccagccct gctgccgacc caccgcgtac gaagcggctc cttcatggc cgtcaacagc 660  
 acctggagaa ccgtggaccg cctctccggcc accgcctgcg gtcgcctggg ctga 714

<210> 31  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 gacgtccatg aaggagaccg ctctgttagcg cgtgggtcg cagcagggtc ggctgacggg 120  
 cccggagccc gggggcggtc gcaggggcccc ggcgcggcaact aggctggcca ggctgaggcc 180  
 gtgtggagag cgcgcgcggc ggcaggagcc gctgcagaag cggaaacgc ccaagctcgtc 240  
 ggagcgggtgg cccaggccga ggcgcgcgcac cggcaccaggc tgcgagcgc ggcggcggcc 300  
 cccgcggcccc gctggccgag cgcgcgtgg cggggccca gcccggccgc cggggccccc 360  
 gccccggaaaga gcagatgggg gtgcaggcg cggggggcg ggcggagaag gctgcggccgg 420  
 cggccggccgg gcttttccac tgacccaggc ggcgcgtgcgt ccccccggca ggtggccggc 480  
 gggggacgcgc aggacaggcg gggggccctc gcggggggca gggctgcggg ggcggagcc 540  
 caggaggagcc tctgcgacgc tgctcagcag agccagagcg gccagggtgg gccacaggcc 600  
 aggctgcgcg gagagaccaa gtggagcctc agggagaaag agggcaccca ggtgggcttg 660  
 gggaggaagg acctcaagga ggggtgtcc tcgggctgtcg atcaggccgg gcat 714

<210> 32  
 <211> 237  
 <212> PRT

<213> Homo sapiens

<400> 32

Met	Pro	Gly	Leu	Ile	Ser	Ala	Arg	Gly	Gln	Pro	Leu	Leu	Glu	Val	Leu
1															15
Pro	Pro	Gln	Ala	His	Leu	Gly	Ala	Leu	Phe	Leu	Pro	Glu	Ala	Pro	Leu
															30
Gly	Leu	Ser	Ala	Gln	Pro	Ala	Leu	Trp	Pro	Thr	Leu	Ala	Ala	Leu	Ala
															45
Leu	Leu	Ser	Ser	Val	Ala	Glu	Ala	Ser	Leu	Gly	Ser	Ala	Pro	Arg	Ser
															60
Pro	Ala	Pro	Arg	Glu	Gly	Pro	Pro	Pro	Val	Leu	Ala	Ser	Pro	Ala	Gly
															80
His	Leu	Pro	Gly	Gly	Arg	Thr	Ala	Arg	Trp	Cys	Ser	Gly	Arg	Ala	Arg
															95
Arg	Pro	Pro	Pro	Gln	Pro	Ser	Arg	Pro	Ala	Pro	Pro	Pro	Pro	Ala	Pro
															110
Pro	Ser	Ala	Leu	Pro	Arg	Gly	Gly	Arg	Ala	Ala	Arg	Ala	Gly	Gly	Pro
															125
Gly	Ser	Arg	Ala	Arg	Ala	Ala	Gly	Ala	Arg	Gly	Cys	Arg	Leu	Arg	Ser
															140
Gln	Leu	Val	Pro	Val	Arg	Ala	Leu	Gly	Leu	Gly	His	Arg	Ser	Asp	Glu
															160
Leu	Val	Arg	Phe	Arg	Phe	Cys	Ser	Gly	Ser	Cys	Arg	Arg	Ala	Arg	Ser
															175
Pro	His	Asp	Leu	Ser	Leu	Ala	Ser	Leu	Leu	Gly	Ala	Gly	Ala	Leu	Arg
															190
Pro	Pro	Pro	Gly	Ser	Arg	Pro	Val	Ser	Gln	Pro	Cys	Cys	Arg	Pro	Thr
															205
Arg	Tyr	Glu	Ala	Val	Ser	Phe	Met	Asp	Val	Asn	Ser	Thr	Trp	Arg	Thr
															220
Val	Asp	Arg	Leu	Ser	Ala	Thr	Ala	Cys	Gly	Cys	Cys	Leu	Gly		
225															

<210> 33

<211> 96

<212> PRT

<213> MURINE

<400> 33

Cys	Arg	Leu	Arg	Ser	Gln	Leu	Val	Pro	Val	Ser	Ala	Leu	Gly	Leu	Gly
1															15
His	Ser	Ser	Asp	Glu	Leu	Ile	Arg	Phe	Arg	Phe	Cys	Ser	Gly	Ser	Cys
															30
Arg	Arg	Ala	Arg	Ser	Gln	His	Asp	Leu	Ser	Leu	Ala	Ser	Leu	Leu	Gly
															45
Ala	Gly	Ala	Leu	Arg	Ser	Pro	Pro	Gly	Ser	Arg	Pro	Ile	Ser	Gln	Pro
															60
50															

Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn  
 65 70 75 80

Ser Thr Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys  
 85 90 95

<210> 34  
 <211> 113  
 <212> PRT  
 <213> MURINE

<400> 34  
 Ala Gly Thr Arg Ser Ser Arg Ala Arg Thr Thr Asp Ala Arg Gly Cys  
 1 5 10 15

Arg Leu Arg Ser Gln Leu Val Pro Val Ser Ala Leu Gly Leu Gly His  
 20 25 30

Ser Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg  
 35 40 45

Arg Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala  
 50 55 60

Gly Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser Gln Pro Cys  
 65 70 75 80

Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser  
 85 90 95

Thr Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys Leu  
 100 105 110

Gly

<210> 35  
 <211> 116  
 <212> PRT  
 <213> MURINE

<400> 35  
 Ala Ala Arg Ala Gly Thr Arg Ser Ser Arg Ala Arg Thr Thr Asp Ala  
 1 5 10 15

Arg Gly Cys Arg Leu Arg Ser Gln Leu Val Pro Val Ser Ala Leu Gly  
 20 25 30

Leu Gly His Ser Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly  
 35 40 45

Ser Cys Arg Arg Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu  
 50 55 60

Leu Gly Ala Gly Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser  
 65 70 75 80

Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp  
 85 90 95

APR 11 2000

Val Asn Ser Thr Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys  
 100 105 110

Gly Cys Leu Gly  
 115

<210> 36  
 <211> 144  
 <212> PRT  
 <213> MURINE

<400> 36  
 Pro Pro Pro Gln Ser Pro Gln Pro Ala Pro Pro Pro Pro Gly Pro Ala  
 1 5 10 15

Leu Gln Ser Pro Pro Ala Ala Leu Arg Gly Ala Arg Ala Ala Arg Ala  
 20 25 30

Gly Thr Arg Ser Ser Arg Ala Arg Thr Thr Asp Ala Arg Gly Cys Arg  
 35 40 45

Leu Arg Ser Gln Leu Val Pro Val Ser Ala Leu Gly Leu Gly His Ser  
 50 55 60

Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg  
 65 70 75 80

Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly  
 85 90 95

Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser Gln Pro Cys Cys  
 100 105 110

Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr  
 115 120 125

Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
 130 135 140

<210> 37  
 <211> 342  
 <212> DNA  
 <213> MURINE

<400> 37  
 gcaggaaccc ggagcagccg cgcacggacc acagatgcgc gcggctgccc cctgcgctcg 60  
 cagctggtgc cggtagtgc gctcggccct a ggcacagct ccgacgagct gatacgttcc 120  
 cgttctgca gcccgtcgcc cccggcggca cgcgtccac acgatctcg tctggccagc 180  
 ctactggcgc ctggggccct acggtagcct cccgggtccc ggcgcgtcc ccagccctgc 240  
 tgccggccca ctgcgtatga ggcgtctcc ttcatggac tgaacagcac ctggaggacc 300  
 gtggaccacc tctccggccac tgcgtcgcc tgcgtggct ga 342

<210> 38  
 <211> 351  
 <212> DNA  
 <213> MURINE

<400> 38  
 gccccgcgtg caggaacccg gagcagccgc gcacggacc ca gatgcgc cggctgccc 60  
 ctgcgtcgcc agctggtgcc ggtgatgcg ctcggccat ggcacagct cgcacgatgc 120  
 atacgttcc gcttctgca cggctcgat cgcgcgac gctccagca cgtatctcagt 180

ctggccagcc tactgggcgc tggggcccta cggtcgcctc ccgggtcccg gccgatcagc 240  
 cagccctgct gccggccac tcgctatgag gccgtctct tcatggacgt gaacagcacc 300  
 tggaggacg tggaccacct ctccgccact gcctgcggct gtctgggctg a 351

<210> 39

<211> 435

<212> DNA

<213> MURINE

<400> 39

cccccgccctc agtctcctca gcccgcaccc cccgcgcctg gtcccgcgct ccagtctct 60  
 cccgctgcgc tccgcggggc acgcgcggcg cgtcagaa cccggagcg cccgcacgg 120  
 accacagatg cgcgcggctg cccgcgcgc tcgcagctgg tgccggtag tgccgtcg 180  
 cttagggcaca gtcggacga gctgatacg ttcgcgttgc gcagcggctg tgccggcga 240  
 gcacgcgtccc agcacgatct cagtcggcc agcctactgg ggcgtgggc cctacggtc 300  
 cctccgggt cccggccat cagccagccc tgctgcggc ccactcgcta tgaggccgtc 360  
 tccttcatgg acgtgaacag cacctggagg accgtggacc acctctccgc cactgcctgc 420  
 ggctgtctgg gctga 435

<210> 40

<211> 181

<212> PRT

<213> Homo sapiens

<400> 40

Ser	Leu	Gly	Ser	Ala	Pro	Arg	Ser	Pro	Ala	Pro	Arg	Glu	Gly	Pro	Pro
1				5					10					15	

Pro	Val	Leu	Ala	Ser	Pro	Ala	Gly	His	Leu	Pro	Gly	Gly	Arg	Thr	Ala
								20		25			30		

Arg	Trp	Cys	Ser	Gly	Arg	Ala	Arg	Arg	Pro	Pro	Pro	Gln	Pro	Ser	Arg
								35		40			45		

Pro	Ala	Pro	Pro	Pro	Pro	Ala	Pro	Pro	Ser	Ala	Leu	Pro	Arg	Gly	Gly
								50		55			60		

Arg	Ala	Ala	Arg	Ala	Gly	Gly	Pro	Gly	Ser	Arg	Ala	Arg	Ala	Ala	Gly
								65		70			75		80

Ala	Arg	Gly	Cys	Arg	Leu	Arg	Ser	Gln	Leu	Val	Pro	Val	Arg	Ala	Leu
								85		90			95		

Gly	Leu	Gly	His	Arg	Ser	Asp	Glu	Leu	Val	Arg	Phe	Arg	Phe	Cys	Ser
								100		105			110		

Gly	Ser	Cys	Arg	Arg	Ala	Arg	Ser	Pro	His	Asp	Leu	Ser	Leu	Ala	Ser
								115		120			125		

Leu	Leu	Gly	Ala	Gly	Ala	Leu	Arg	Pro	Pro	Gly	Ser	Arg	Pro	Val
								130		135			140	

Ser	Gln	Pro	Cys	Cys	Arg	Pro	Thr	Arg	Tyr	Glu	Ala	Val	Ser	Phe	Met
								145		150			155		160

Asp	Val	Asn	Ser	Thr	Trp	Arg	Thr	Val	Asp	Arg	Leu	Ser	Ala	Thr	Ala
								165		170			175		

Cys	Gly	Cys	Leu	Gly
			180	

<210> 41

<211> 185

<212> PRT

<213> MURINE

<400> 41  
 Ser Leu Asp Pro Met Ser Arg Ser Pro Ala Ala Arg Asp Gly Pro Ser  
 1 5 10 15  
 Pro Val Leu Ala Pro Pro Thr Asp His Leu Pro Gly Gly His Thr Ala  
 20 25 30  
 His Leu Cys Ser Glu Arg Thr Leu Arg Pro Pro Gln Ser Pro Gln  
 35 40 45  
 Pro Ala Pro Pro Pro Gly Pro Ala Leu Gln Ser Pro Pro Ala Ala  
 50 55 60  
 Leu Arg Gly Ala Arg Ala Ala Arg Ala Gly Thr Arg Ser Ser Arg Ala  
 65 70 75 80  
 Arg Thr Thr Asp Ala Arg Gly Cys Arg Leu Arg Ser Gln Leu Val Pro  
 85 90 95  
 Val Ser Ala Leu Gly Leu Gly His Ser Ser Asp Glu Leu Ile Arg Phe  
 100 105 110  
 Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Gln His Asp Leu  
 115 120 125  
 Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Ser Pro Pro Gly  
 130 135 140  
 Ser Arg Pro Ile Ser Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu Ala  
 145 150 155 160  
 Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val Asp His Leu  
 165 170 175  
 Ser Ala Thr Ala Cys Gly Cys Leu Gly  
 180 185

<210> 42  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 tccctggct ccgcgcggcc cagccctgcc ccccgcgaaag gccccccgccc tgcctggcg 60  
 tccccccgccc gccacctgcc ggggggacgc acggcccgct ggtcagttgg aagagcccg 120  
 cggccgcggcc cgcagcccttc tcggcccgcc ccccgccgc ctgcacccccc atctgtcttt 180  
 ccccgccgggg gccgcggcc gcgggctggg ggcccggca gccgcgtcg ggcagcgggg 240  
 gcgcggggct gccgcctgcg ctgcagctg gtgcgggtgc gcgcgtcg cctggccac 300  
 cgctccgacg agctgggtcg tttccgcttc tgcagcgct cctgcccggc cgccgcgtct 360  
 ccacacgacc tcagccctggc cagcctactg ggcgcgggg ccctgcgacc gccccccggc 420  
 tcccgccccc tcagccagcc ctgctgccga cccacgcgt acgaagcggt ctccatgc 480  
 gacgtcaaca gcacctggag aaccgtggac cgcctcccg ccacccgcctg cggctgcctg 540  
 ggctga 546

<210> 43  
 <211> 558  
 <212> DNA  
 <213> MURINE

<400> 43  
 tccctggacc caatgtccccg cagccccggcc gctcgcgacg gtccctcacc ggtcttggcg 60  
 ccccccacgg accacctgcc tgggggacac actgcgcatt tgcagcgaa aagaaccctg 120  
 cgaccccccgc ctcagtcctcc tcagcccgca ccccgccgc ctggccccc gctccagtt 180  
 cctcccgctg cgctccgcgg ggcacgcgcg ggcgtgcag gaaccggag cagccgcgc 240

cggaccacag atgcgcgcgg ctggccctg cgctcgacg tggtgccgt gagtgcgctc 300  
 ggccctaggcc acagctccga cgagctgata cgtttccgct tctcagcgg ctcgtccgc 360  
 cgagcacgct cccagcacga tctcagtcg gccagcctac tgggcgctgg gcccctacgg 420  
 tcgcctcccg ggtcccgcc gatcagccag ccctgctgcc ggcccactcg ctatgaggcc 480  
 gtctccttca tggacgtgaa cagcacctgg aggaccgtgg accacctctc cgccactgccc 540  
 tgcggctgtc tgggctgaa 558

<210> 44  
 <211> 663  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
 atggaacttg gacttggagg cctctccacg ctgtcccact gcccctggcc taggcggcag 60  
 cctgcccgtg ggcccacccct ggccgctctg gctctgctga gcagcgtcgc agaggcctcc 120  
 ctgggctccg cgccccgcag ccctgcccc cgcgaaggcc ccccgcctgt cctggcgccc 180  
 cccgcggcc acctgcccgg gggacgcacg gcccgcgtgt gcagtggaaag agcccgccgg 240  
 ccgcgcgcgc agccttctcg gcccgcgccc cgcgcgcctg caccgcgcac 300  
 cgcggggcc ggcgcggcgcg ggctggggcc cccggcagcc gcgcgcggcc agcggggccgg 360  
 cggggctgcc gcctgcgcgc gcagctggtg ccgggtgcgcgc gcgcgcggcc 420  
 tccgcgacgat tggtgcgtt ccgcgttgc acgcggctctt gcccggcgcgc gcgcgtctcca 480  
 cacgacatca gcctggccag cctactggcc gcccggggcc tgcgaccgc cccgggcctcc 540  
 cggccgcgtca gccagccctg ctggcgcaccc acgcgcgtacg aggccgtctc cttcatggac 600  
 gtcacacagca cctggagaac cgtggaccgc ctctccgc 660  
 tga 663

<210> 45  
 <400> 45  
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<210> 46  
 <400> 46  
 000

<210> 47  
 <400> 47  
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<210> 48  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Met Glu Leu Gly Leu Gly Leu Ser Thr Leu Ser His Cys Pro Trp  
 1 5 10 15

Pro Arg Arg Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu Ala Leu  
 20 25 30  
 Leu Ser Ser Val Ala Glu Ala  
 35

<210> 49  
 <211> 39  
 <212> PRT  
 <213> MURINE

<400> 49  
 Met Glu Leu Gly Leu Ala Glu Pro Thr Ala Leu Ser His Cys Leu Arg  
 1 5 10 15

Pro Arg Trp Gln Ser Ala Trp Trp Pro Thr Leu Ala Val Leu Ala Leu  
 20 25 30

Leu Ser Cys Val Thr Glu Ala  
35

<210> 50  
<211> 68  
<212> PRT  
<213> Homo sapiens

<400> 50  
Ser Leu Gly Ser Ala Pro Arg Ser Pro Ala Pro Arg Glu Gly Pro Pro  
1 5 10 15

Pro Val Leu Ala Ser Pro Ala Gly His Leu Pro Gly Gly Arg Thr Ala  
20 25 30

Arg Trp Cys Ser Gly Arg Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg  
35 40 45

Pro Ala Pro Pro Pro Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly  
50 55 60

Arg Ala Ala Arg  
65

<210> 51  
<211> 72  
<212> PRT  
<213> MURINE

<400> 51  
Ser Leu Asp Pro Met Ser Arg Ser Pro Ala Ala Arg Asp Gly Pro Ser  
1 5 10 15

Pro Val Leu Ala Pro Pro Thr Asp His Leu Pro Gly Gly His Thr Ala  
20 25 30

His Leu Cys Ser Gly Arg Thr Leu Arg Pro Pro Pro Gln Ser Pro Gln  
35 40 45

Pro Ala Pro Pro Pro Gly Pro Ala Leu Gln Ser Pro Pro Ala Ala  
50 55 60

Leu Arg Gly Ala Arg Ala Ala Arg  
65 70

<210> 52  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 52  
Met Glu Leu Gly Leu Gly Gly Leu Ser Thr Leu Ser His Cys Pro Trp  
1 5 10 15

Pro Arg Arg Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu Ala Leu  
20 25 30

Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro Arg Ser Pro  
35 40 45

Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro Ala Gly His  
50 55 60

Leu Pro Gly Gly Arg Thr Ala Arg Trp Cys Ser Gly Arg Ala Arg Arg  
 65 70 75 80

Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro Ala Pro Pro  
 85 90 95

Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg  
 100 105

<210> 53

<211> 111

<212> PRT

<213> MURINE

<400> 53

Met Glu Leu Gly Leu Ala Glu Pro Thr Ala Leu Ser His Cys Leu Arg  
 1 5 10 15

Pro Arg Trp Gln Ser Ala Trp Trp Pro Thr Leu Ala Val Leu Ala Leu  
 20 25 30

Leu Ser Cys Val Thr Glu Ala Ser Leu Asp Pro Met Ser Arg Ser Pro  
 35 40 45

Ala Ala Arg Asp Gly Pro Ser Pro Val Leu Ala Pro Pro Thr Asp His  
 50 55 60

Leu Pro Gly Gly His Thr Ala His Leu Cys Ser Glu Arg Thr Leu Arg  
 65 70 75 80

Pro Pro Pro Gln Ser Pro Gln Pro Ala Pro Pro Pro Pro Gly Pro Ala  
 85 90 95

Leu Gln Ser Pro Pro Ala Ala Leu Arg Gly Ala Arg Ala Ala Arg  
 100 105 110

<210> 54

<211> 117

<212> DNA

<213> Homo sapiens

<400> 54

atggaacttg gacttggagg cctctccacg ctgtccact gcccctggcc taggcggcag 60  
 cctgcccctgt ggcccacccct ggccgctctg gctctgctga gcagcgtcgc agaggcc 117

<210> 55

<211> 117

<212> DNA

<213> MURINE

<400> 55

atggaactgg gacttgcaga gcctactgca ttgtccact gcctccggcc taggtggcag 60  
 tcagcctggc ggccaacccct agctgttcta gcccctgctga gctgcgtcac agaagct 117

<210> 56

<211> 204

<212> DNA

<213> Homo sapiens

<400> 56

tccctgggct ccgcgcggcc cagccctgcc ccccgcaag gccccccgccc tgtcctggcg 60  
 tccccccgccc gccacctgcc ggggggacgc acggcccgct ggtcagtg aagagcccg 120  
 cggccgcggc cgcagccttc tcggcccgcg ccccccgcgc ctgcacccccc atctgcttt 180  
 ccccgcgggg gccgcgcggc gcgg 204

<210> 57  
 <211> 216  
 <212> DNA  
 <213> MURINE

<400> 57  
 tccctggacc caatgtcccg cagccccgcc gctcgcgacg gtccttcacc ggtcttggcg 60  
 ccccccacgg accacctgcc tgggggacac actgcgcatt tgtgcagcga aagaaccctg 120  
 cgaccccccgc ctcagtcctcc tcagccgcga ccccccgcgc ctggtcccgc gtcaggct 180  
 cctcccgctg cgctccgcgg ggcacgcgcg ggcgcgt 216

<210> 58  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 atgaaacttg gacttggagg ccttccacg ctgtcccact gcccctggcc taggcggcag 60  
 cctgcccgtg ggccccaccc ggcgcgtctg gctctgctga gcagcgtcgc agaggcctcc 120  
 ctgggctccg cgccccgcag ccctgcccc cgcgaaggcc ccccccgtg cctggcgtcc 180  
 cccggccggc acctgcccgg gggacgcacg gcccgtgt gcagtgaaag agccggcgg 240  
 cccggccgcg acgccttcctg gcccgcgtcc cccggcgtg caccggccatc tgctttccc 300  
 cgcggggggcc ggcgcggcgcg g 321

<210> 59  
 <211> 333  
 <212> DNA  
 <213> MURINE

<400> 59  
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 cagctggtgc cggtagtgc gctcggctta ggccacagct ccgcacgcgt gatacgtttc 120  
 cgttctgcgca gcccgtctg cccggcggca cgcgtccgc acgcatttcgt tctggccagc 180  
 ctactggcgctg ctggggccct acggtcgccct cccgggtccc ggccgatcgt ccagccctgc 240  
 tggccggccca ctcgtatga gcccgtctcc ttcatggacg tgaacagcac ctggaggacc 300  
 gtggaccacc tctccggcac tgctgcggc tgt 333

<210> 60  
 <211> 342  
 <212> DNA  
 <213> MURINE

<400> 60  
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 cccggaccccg ggaggcgacc gtagggcccc agcgcggcgtt aggctggcca gactgagatc 180  
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 <212> DNA  
 <213> MURINE

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 gtgctggagat cgtgctcgcc ggcacgcggcc gctgcagaag cggaaacgtt tcaagtcgtc 240  
 ggagctgtgg cctaggccga ggcactcac cggcaccacgc tgccgacgcga ggcggcagcc 300  
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<210> 62  
 <211> 435

&lt;212&gt; DNA

&lt;213&gt; MURINE

&lt;400&gt; 62

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 ccgggaccccg ggagggcgacc gtagggccccc agcgcggcaact aggtggcca gactgagatc 180  
 gtgctgggag cgtgctcggc ggcacgagcc gctgcagaag cggaaacgtt tcaagctcg 240  
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 agactgaggc ggggg 435

&lt;210&gt; 63

&lt;211&gt; 400

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

Met	Val	Arg	Pro	Leu	Asn	Pro	Arg	Pro	Leu	Pro	Pro	Val	Val	Leu	Met
1				5					10			15			

Leu	Leu	Leu	Leu	Leu	Pro	Pro	Ser	Pro	Leu	Pro	Leu	Ala	Ala	Gly	Asp
				20					25			30			

Pro	Leu	Pro	Thr	Glu	Ser	Arg	Leu	Met	Asn	Ser	Cys	Leu	Gln	Ala	Arg
						35			40			45			

Arg	Lys	Cys	Gln	Ala	Asp	Pro	Thr	Cys	Ser	Ala	Ala	Tyr	His	His	Leu
				50				55			60				

Asp	Ser	Cys	Thr	Ser	Ser	Ile	Ser	Thr	Pro	Leu	Pro	Ser	Glu	Glu	Pro
					65			70			75		80		

Ser	Val	Pro	Ala	Asp	Cys	Leu	Glu	Ala	Ala	Gln	Gln	Leu	Arg	Asn	Ser
					85				90			95			

Ser	Leu	Ile	Gly	Cys	Met	Cys	His	Arg	Arg	Met	Lys	Asn	Gln	Val	Ala
					100				105			110			

Cys	Leu	Asp	Ile	Tyr	Trp	Thr	Val	His	Arg	Ala	Arg	Ser	Leu	Gly	Asn
					115			120			125				

Tyr	Glu	Leu	Asp	Val	Ser	Pro	Tyr	Glu	Asp	Thr	Val	Thr	Ser	Lys	Pro
					130			135			140				

Trp	Lys	Met	Asn	Leu	Ser	Lys	Leu	Asn	Met	Leu	Lys	Pro	Asp	Ser	Asp
					145			150			155		160		

Leu	Cys	Leu	Lys	Phe	Ala	Met	Leu	Cys	Thr	Leu	Asn	Asp	Lys	Cys	Asp
						165			170			175			

Arg	Leu	Arg	Lys	Ala	Tyr	Gly	Glu	Ala	Cys	Ser	Gly	Pro	His	Cys	Gln
					180			185			190				

Arg	His	Val	Cys	Leu	Arg	Gln	Leu	Leu	Thr	Phe	Phe	Glu	Lys	Ala	Ala
					195			200			205				

Glu	Pro	His	Ala	Gln	Gly	Leu	Leu	Leu	Cys	Pro	Cys	Ala	Pro	Asn	Asp
					210			215			220				

Arg	Gly	Cys	Gly	Glu	Arg	Arg	Asn	Thr	Ile	Ala	Pro	Asn	Cys	Ala	
					225			230			235		240		

Leu	Pro	Pro	Val	Ala	Pro	Asn	Cys	Leu	Glu	Leu	Arg	Arg	Leu	Cys	Phe
					245			250			255				

Ser Asp Pro Leu Cys Arg Ser Arg Leu Val Asp Phe Gln Thr His Cys  
 260 265 270  
 His Pro Met Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys  
 275 280 285  
 Leu Arg Ala Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe  
 290 295 300  
 Val Ser Asn Val Asn Thr Ser Val Ala Leu Ser Cys Thr Cys Arg Gly  
 305 310 315 320  
 Ser Gly Asn Leu Gln Glu Glu Cys Glu Met Leu Glu Gly Phe Phe Ser  
 325 330 335  
 His Asn Pro Cys Leu Thr Glu Ala Ile Ala Ala Lys Met Arg Phe His  
 340 345 350  
 Ser Gln Leu Phe Ser Gln Asp Trp Pro His Pro Thr Phe Ala Val Met  
 355 360 365  
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 370 375 380  
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 385 390 395 400

<210> 64  
 <211> 397  
 <212> PRT  
 <213> Murine

<400> 64  
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 20 25 30  
 Thr Glu Asn Arg Phe Val Asn Ser Cys Thr Gln Ala Arg Lys Lys Cys  
 35 40 45  
 Glu Ala Asn Pro Ala Cys Lys Ala Ala Tyr Gln His Leu Gly Ser Cys  
 50 55 60  
 Thr Ser Ser Leu Ser Arg Pro Leu Pro Leu Glu Glu Ser Ala Met Ser  
 65 70 75 80  
 Ala Asp Cys Leu Glu Ala Ala Glu Gln Leu Arg Asn Ser Ser Leu Ile  
 85 90 95  
 Asp Cys Arg Cys His Arg Arg Met Lys His Gln Ala Thr Cys Leu Asp  
 100 105 110  
 Ile Tyr Trp Thr Val His Pro Ala Arg Ser Leu Gly Asp Tyr Glu Leu  
 115 120 125  
 Asp Val Ser Pro Tyr Glu Asp Thr Val Thr Ser Lys Pro Trp Lys Met  
 130 135 140

Asn Leu Ser Lys Leu Asn Met Leu Lys Pro Asp Ser Asp Leu Cys Leu  
 145 150 155 160  
 Lys Phe Ala Met Leu Cys Thr Leu His Asp Lys Cys Asp Arg Leu Arg  
 165 170 175  
 Lys Ala Tyr Gly Glu Ala Cys Ser Gly Ile Arg Cys Gln Arg His Leu  
 180 185 190  
 Cys Leu Ala Gln Leu Arg Ser Phe Phe Glu Lys Ala Ala Glu Ser His  
 195 200 205  
 Ala Gln Gly Leu Leu Leu Cys Pro Cys Ala Pro Glu Asp Ala Gly Cys  
 210 215 220  
 Gly Glu Arg Arg Arg Asn Thr Ile Ala Pro Ser Cys Ala Leu Pro Ser  
 225 230 235 240  
 Val Thr Pro Asn Cys Leu Asp Leu Arg Ser Phe Cys Arg Ala Asp Pro  
 245 250 255  
 Leu Cys Arg Ser Arg Leu Met Asp Phe Gln Thr His Cys His Pro Met  
 260 265 270  
 Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys Leu Arg Ala  
 275 280 285  
 Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe Ile Ser Lys  
 290 295 300  
 Val Asn Thr Thr Val Ala Leu Ser Cys Thr Cys Arg Gly Ser Gly Asn  
 305 310 315 320  
 Leu Gln Asp Glu Cys Glu Gln Leu Glu Arg Ser Phe Ser Gln Asn Pro  
 325 330 335  
 Cys Leu Val Glu Ala Ile Ala Ala Lys Met Arg Phe His Arg Gln Leu  
 340 345 350  
 Phe Ser Gln Asp Trp Ala Asp Ser Thr Phe Ser Val Val Gln Gln  
 355 360 365  
 Asn Ser Asn Pro Ala Leu Arg Leu Gln Pro Arg Leu Pro Ile Leu Ser  
 370 375 380  
 Phe Ser Ile Leu Pro Leu Ile Leu Leu Gln Thr Leu Trp  
 385 390 395

<210> 65  
 <211> 1203  
 <212> DNA  
 <213> Homo sapiens

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 atgaacagct gtctccaggc caggaggaag tgccaggctg atcccacctg cagtgctgcc 180  
 taccaccacc tggatttctg caccctctagc ataagcaccc cactgcccctc agaggagct 240  
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 tgcattgtgcc accggcgcattt gaagaaccag gttgcctgtt tggacatcta ttggaccgtt 360  
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 accagcaaac cctggaaaat gaatctcagc aaactgaaca tgctcaaacc agactcagac 480  
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<210> 66  
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 <212> DNA  
 <213> RAT

<400> 66  
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24

<210> 67  
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 <212> DNA  
 <213> RAT

<400> 67  
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24

<210> 68  
 <211> 1652  
 <212> DNA  
 <213> Homo sapiens

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<210> 69  
 <211> 1652  
 <212> DNA  
 <213> MURINE

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gtgcttgcg cgtattcttt cacaacttca tgaggtaat ggtttaatcc ctttttcca 1620
gatgagcaaa caaggctcag agaagctcag ag 1652

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<210> 70  
<211> 24  
<212> PRT  
<213> *Homo sapiens*

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<400> 70
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Leu Pro His Gly Val Val Lys Glu
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<210> 71  
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<212> PRT  
<213> *Homo sapiens*

<400> 71  
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<210> 72  
<211> 13  
<212> PRT  
<213> *Homo sapiens*

<400> 72  
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<210> 73  
<211> 488

<212> DNA  
<213> RAT

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gccccggccc tgcggtcgcc tcccggtcc cggccgatca gccagccctg ttgcccggccc 180  
actcgctatg aggccgtctc cttcatggat gtgaacagca cctggagaac cgtggaccat 240  
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gaccatatg tcgcccattcc tggAACAGCC ccacggggcc tcactagcta ggagcctcaa 360  
ctcaacagga agctcaggcc tcaggccgat gaggacaga cagagcctgg aaagatgacc 420  
gaaccactga ccaacagtcc caaggtgttc atggatccca gctctacaga cagcagaaac 480  
ctcagcta 488

<210> 74  
<211> 488  
<212> DNA  
<213> RAT

<400> 74  
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gccccggcgc ccaggcaggctt gggccaggctg agatctgttggc gggagcgttc tcggcggcac 420  
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cttaccgg 488

<210> 75  
<211> 90  
<212> PRT  
<213> RAT

<400> 75  
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Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Pro His Asp  
20 25 30

Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Ser Pro Pro  
35 40 45

Gly Ser Arg Pro Ile Ser Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu  
50 55 60

Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val Asp His  
65 70 75 80

Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
85 90

<210> 76  
<211> 20  
<212> DNA  
<213> RAT

<400> 76  
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<210> 77  
<211> 24  
<212> DNA

<213> RAT

<400> 77

ttctggattc tccccagagga gttc

24

<210> 78

<211> 6

<212> PRT

<213> Homo sapiens

<400> 78

Trp Pro Leu Trp Leu Cys  
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<210> 79

<211> 50

<212> PRT

<213> Homo sapiens

<400> 79

Ala Ala Ser Gln Arg Pro Pro Trp Ala Pro Arg Pro Ala Ala Leu Pro  
1 5 10 15

Pro Ala Lys Ala Pro Arg Leu Ser Trp Arg Pro Pro Pro Ala Thr Cys  
20 25 30

Arg Val Gly Glu Arg Ala Arg Gly Arg Gly Gly Ala Gly Pro Gly His  
35 40 45

Arg Ala  
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<210> 80

<211> 14

<212> PRT

<213> Homo sapiens

<400> 80

Gly Leu Ala Pro Gly Leu Cys Arg Leu Asp Pro Tyr Arg Trp  
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<210> 81

<211> 68

<212> PRT

<213> Homo sapiens

<400> 81

Leu Cys Arg Pro Leu Val Pro His Leu Glu Lys Leu Gly Trp Gln Ala  
1 5 10 15

Gly Pro Pro Gln Lys Ile Thr His Leu Leu Ile Cys Lys Leu Pro Gln  
20 25 30

Gln Glu Gly Gly Thr Ala Gln Gln Trp Leu Met Gly Ala Pro Gly  
35 40 45

Val Asp Arg Asp Gly Thr Trp Thr Trp Arg Pro Leu His Ala Val Pro  
50 55 60

Leu Pro Leu Ala  
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<210> 82  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 82  
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<210> 83  
 <211> 12  
 <212> PRT  
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<400> 83  
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 1 5 10

<210> 84  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 84  
 Gly Arg Ala Gly Leu Gly Leu Gly Ser Gly  
 1 5 10

<210> 85  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 85  
 Val Trp Glu Gly Lys Trp Ser Gly Arg Asp Gln Val Asn Gly Arg Arg  
 1 5 10 15

Ser Gly Thr Ser Leu Asn Gly Arg Cys Thr Gln Val Ile Pro Pro Leu  
 20 25 30

Gly Ser Gln Arg Gln Gln Thr His Tyr Thr Gly Thr  
 35 40

<210> 86  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 86  
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 1 5 10 15

<210> 87  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 87  
 Ser Gln Pro Glu Asp Ser Pro Ser Leu Arg Ser Phe Leu Pro Lys Pro  
 1 5 10 15

Thr Trp Val Pro Ser Phe Ser Leu Arg Leu His Leu Val Ser Pro Arg  
 20 25 30

Ser Leu Pro Cys Gly Pro Pro Trp Pro Leu Trp Leu Cys  
 35 40 45

<210> 88  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 88  
 Ala Ala Ser Gln Arg Pro Pro Trp Ala Pro Arg Pro Ala Ala Leu Pro  
 1 5 10 15

Pro Ala Lys Ala Pro Arg Leu Ser Trp Arg Pro Pro Pro Ala Thr Cys  
 20 25 30

Arg Val Gly Glu Arg Ala Arg Gly Arg Gly Gly Ala Gly Pro Gly His  
 35 40 o 45

Arg Ala  
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<210> 89  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 89  
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 1 5 10 15

Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro  
 20 25 30

Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly  
 35 40 45

Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu  
 50 55 60

Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser  
 65 70 75 80

Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala  
 85 90 95

Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala  
 100 105 110

Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg  
 115 120 125

Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp  
 130 135 140

Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
 145 150 155

<210> 90  
 <211> 71  
 <212> PRT

<213> Homo sapiens

<400> 90  
 Gly Leu Ala Pro Gly Leu Cys Arg Leu Asp Pro Tyr Arg Trp Leu Phe  
 1 5 10 15  
 Leu Pro Gly Thr Leu Pro Gln Ser Pro Thr Ser Gln Arg Pro Gln Pro  
 20 25 30  
 Gly Thr Lys Ala Ser Lys Leu Arg Gly Pro Cys Arg Trp Val Met Asp  
 35 40 45  
 Ile Ile Pro Glu Gln Val Lys Gly Gln Leu Thr Ser Ser Pro Arg Ala  
 50 55 60  
 Leu Thr Leu Arg Ile Pro Ala  
 65 70

<210> 91

<211> 10

<212> PRT

<213> Homo sapiens

<400> 91

Lys Thr Pro Glu Thr Ser Ala Met Glu Pro  
 1 5 10

<210> 92

<211> 4

<212> PRT

<213> Homo sapiens

<400> 92

Ser Glu Leu Leu  
 1

<210> 93

<211> 10

<212> PRT

<213> Homo sapiens

<400> 93

Ala Leu Phe Ala His Leu Glu Lys Gly Asp  
 1 5 10

<210> 94

<211> 7

<212> PRT

<213> Homo sapiens

<400> 94

Thr Ile Tyr Leu Met Glu Leu  
 1 5

<210> 95

<211> 9

<212> PRT

<213> Homo sapiens

<400> 95  
 Lys Asn Ser Cys Lys Ala Pro Asn Thr  
 1 5

<210> 96  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
 Gly Ser Gln Cys Ser Tyr Phe Cys Trp Val Glu Ser Ser Cys Val Gly  
 1 5 10 15

Pro Leu Phe Leu Thr Trp Arg Asn Trp Gly Gly Arg Pro Val Pro His  
 20 25 30

Lys Arg

<210> 97  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
 Phe Ala Ser Cys Leu Asn Arg Arg Val Gly Glu Gln Leu Asn Asn Gly  
 1 5 10 15

<210> 98  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 Trp Ala Leu Leu Val Leu Ile Glu Met Glu Leu Gly Leu Gly Leu  
 1 5 10 15

Ser Thr Leu Ser His Cys Pro Trp Pro Arg Arg Gln Val Ser Gly Ser  
 20 25 30

Pro Ser Asp Ser Tyr Leu Val Leu Arg Lys Gly Gly Leu Thr Gly Glu  
 35 40 45

Gly Glu Gln Gly Leu Ala Trp Ala Ala Val Arg Cys Gly Arg Glu Asn  
 50 55 60

Gly Gln Gly Gly Thr Arg  
 65 70

<210> 99  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 99  
 Met Gly Gly Gly Ala Gly Leu Leu  
 1 5

<210> 100  
 <211> 6  
 <212> PRT

<213> Homo sapiens

<400> 100  
Met Val Gly Ala Leu Arg  
1 5

<210> 101  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 101  
Phe Leu Pro Trp Ala Pro Arg Gly Ser Lys Pro Ile Ile Leu Glu Pro  
1 5 10 15  
Arg Pro Phe Leu Ser Phe Pro Ser Thr Gln Leu Gly Ala His Ala Arg  
20 25 30  
Pro Asp Leu Ser Pro Arg Thr Ala Pro Pro  
35 40

<210> 102  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 102  
Gly Pro Ser Ser Pro Ser Pro Pro Gly Cys Pro Leu Ser Pro  
1 5 10

<210> 103  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 103  
Gly Ser Thr Trp Ser Leu Arg Ala Ala Cys Pro Val Ala His Pro Gly  
1 5 10 15  
Arg Ser Gly Ser Ala Glu Gln Arg Arg Arg Gly Leu Pro Gly Leu Arg  
20 25 30  
Ala Pro Gln Pro Cys Pro Pro Arg Arg Pro Pro Ala Cys Pro Gly Val  
35 40 45  
Pro Arg Arg Pro Pro Ala Gly  
50 55

<210> 104  
<211> 215  
<212> PRT  
<213> Homo sapiens

<400> 104  
Val Arg Gly Arg Gly Gly Ala Gly Leu Ala Arg Asp Thr Ala Arg  
1 5 10 15  
Asp Trp Val Ser Phe Gln Gly Asp Ala Arg Pro Ala Gly Ala Val Glu  
20 25 30  
Glu Pro Gly Gly Arg Arg Arg Ser Leu Leu Gly Pro Arg Pro Arg Arg  
35 40 45

Leu His Pro His Leu Leu Phe Pro Ala Gly Ala Ala Arg Arg Gly Leu  
 50 55 60

Gly Ala Arg Ala Ala Ala Leu Gly Gln Arg Gly Arg Gly Ala Ala Ala  
 65 70 75 80

Cys Ala Arg Ser Trp Cys Arg Cys Ala Arg Ser Ala Trp Ala Thr Ala  
 85 90 95

Pro Thr Ser Trp Cys Val Ser Ala Ser Ala Ala Ala Pro Ala Ala Ala  
 100 105 110

Arg Ala Leu His Thr Thr Ser Ala Trp Pro Ala Tyr Trp Ala Pro Gly  
 115 120 125

Pro Cys Asp Arg Pro Arg Ala Pro Gly Pro Ser Ala Ser Pro Ala Ala  
 130 135 140

Asp Pro Arg Ala Thr Lys Arg Ser Pro Ser Trp Thr Ser Thr Ala Pro  
 145 150 155 160

Gly Glu Pro Trp Thr Ala Ser Pro Pro Pro Pro Ala Ala Ala Trp Ala  
 165 170 175

Glu Gly Ser Leu Gln Gly Phe Ala Asp Trp Thr Leu Thr Gly Gly Ser  
 180 185 190

Ser Cys Leu Gly Pro Ser Arg Arg Val Pro Leu Ala Ser Gly Leu Ser  
 195 200 205

Gln Gly Arg Arg Pro Gln Ser  
 210 215

<210> 105  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Glu Ala Pro Ala Gly Gly  
 1 5

<210> 106  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 106  
 Trp Ile Ser Ser Pro Asn Arg  
 1 5

<210> 107  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 107  
 Leu Ala Ala Pro Glu Pro Ser Pro Cys Gly Ser Gln Pro Lys Arg His  
 1 5 10 15

Gln Arg Pro Gln Leu Trp Ser  
 20

<210> 108  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 108  
 Pro Leu Ser Phe Ser Glu Pro Cys Leu Leu Ile Trp Lys Lys Gly Ile  
 1 5 10 15  
 Lys Pro Phe Thr Ser Trp Ser Cys Glu Arg Ile Ala Ala Lys His Leu  
 20 25 30  
 Thr His Ser Lys Val Pro Ser Ala Ala Thr Ser Ala Gly Leu Ser Leu  
 35 40 45  
 Ala Val  
 50

<210> 109  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 109  
 Ala Pro Cys Ser Ser Pro Gly Glu Thr Gly Val Ala Gly Arg Ser Pro  
 1 5 10 15  
 Thr Lys Asp Asn Ser Ser Leu Asn Leu Gln Ala Ala Ser Thr Gly Gly  
 20 25 30  
 Trp Gly Asn Ser Ser Thr Met Ala Asp Gly Arg Ser Trp Cys  
 35 40 45

<210> 110  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 110  
 Arg Trp Asn Leu Asp Leu Glu Ala Ser Pro Arg Cys Pro Thr Ala Pro  
 1 5 10 15  
 Gly Leu Gly Gly Arg  
 20

<210> 111  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Val Val Leu Pro Val Thr Pro Thr Trp Tyr  
 1 5 10

<210> 112  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 112

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Gly Lys Ala Ala  
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<210> 113  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 113  
Leu Val Arg Glu Ser Arg Ala Trp Leu Gly Gln Arg Leu Gly Val Gly  
1 5 10 15

Gly Lys Met Val Arg Glu Gly Pro Gly Glu Trp Glu Glu Arg Asp  
20 25 30

Phe Ser Glu Trp Ser Val His Ser Gly Asp Ser Ser Pro Gly Leu Pro  
35 40 45

Glu Ala Ala Asn Pro Leu Tyr Trp Asn Leu Gly Pro Ser  
50 55 60

<210> 114  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 114  
Val Ser Pro Pro His Ser  
1 5

<210> 115  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 115  
Glu Pro Met Pro Gly Leu Ile Ser Ala Arg Gly Gln Pro Leu Leu Glu  
1 5 10 15

Val Leu Pro Pro Gln Ala His Leu Gly Ala Leu Phe Leu Pro Glu Ala  
20 25 30

Pro Leu Gly Leu Ser Ala Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala  
35 40 45

Leu Ala Leu Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro  
50 55 60

Arg Ser Pro Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro  
65 70 75 80

Ala Gly His Leu Pro Gly Arg  
85

<210> 116  
<211> 201  
<212> PRT  
<213> Homo sapiens

<400> 116  
Glu Gly Glu Gly Ala Gly Arg Gly Trp Pro Gly Thr Pro Arg Val Thr  
1 5 10 15

Gly Ser His Ser Arg Gly Thr His Gly Pro Leu Val Gln Trp Lys Ser  
 20 25 30  
 Pro Ala Ala Ala Ala Ala Phe Ser Ala Arg Ala Pro Ala Ala Cys  
 35 40 45  
 Thr Pro Ile Cys Ser Ser Pro Arg Gly Pro Arg Gly Ala Gly Trp Gly  
 50 55 60  
 Pro Gly Gln Pro Arg Ser Gly Ser Gly Gly Ala Gly Leu Pro Pro Ala  
 65 70 75 80  
 Leu Ala Ala Gly Ala Gly Ala Arg Ala Arg Pro Gly Pro Pro Leu Arg  
 85 90 95  
 Arg Ala Gly Ala Phe Pro Leu Leu Gln Arg Leu Leu Pro Pro Arg Ala  
 100 105 110  
 Leu Ser Thr Arg Pro Gln Pro Gly Gln Pro Thr Gly Arg Arg Gly Pro  
 115 120 125  
 Ala Thr Ala Pro Gly Leu Pro Ala Arg Gln Pro Ala Leu Leu Pro Thr  
 130 135 140  
 His Ala Leu Arg Ser Gly Leu Leu His Gly Arg Gln Gln His Leu Glu  
 145 150 155 160  
 Asn Arg Gly Pro Pro Leu Arg His Arg Leu Arg Leu Pro Gly Leu Arg  
 165 170 175  
 Ala Arg Ser Arg Ala Leu Gln Thr Gly Pro Leu Pro Val Ala Leu Pro  
 180 185 190  
 Ala Trp Asp Pro Pro Ala Glu Ser His  
 195 200

<210> 117  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 117  
 Pro Ala Ala Ser Ala Arg Asp Glu Gly Leu Lys Ala Glu Arg Pro Leu  
 1 5 10 15  
 Pro Val Gly Asp Gly Tyr His Pro Arg Thr Gly Glu Gly Thr Thr Asp  
 20 25 30

<210> 118  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Gln Pro Gln Ser Pro His Pro Ala Asp Pro Ser Leu Lys Asp Thr Arg  
 1 5 10 15  
 Asp Leu Ser Tyr Gly Ala  
 20

<210> 119

<211> 23

<212> PRT

<213> RAT

<400> 119

Ser Ser Ser Phe Cys Thr Leu Asp Pro Tyr Val Ala Leu Pro Gly Thr  
1 5 10 15

Ala Pro Arg Gly Leu Thr Ser  
20

<210> 120

<211> 46

<212> PRT

<213> RAT

<400> 120

Glu Pro Gln Leu Asn Arg Lys Leu Arg Pro Gln Ala Asp Glu Gly Gln  
1 5 10 15

Thr Glu Pro Gly Lys Met Thr Glu Pro Leu Thr Asn Ser Pro Lys Val  
20 25 30

Phe Met Asp Pro Ser Ser Thr Asp Ser Arg Asn Leu Ser Tyr  
35 40 45